**Honors Math 3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Unit 7 Part 2 Review 2

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| 1. Write the standard equation for the circle with center (2, 7), *r* = 4 | 1. Write the standard equation for the circle with center (–6, –8), that passes through (0, 0) |
| 1. Write the standard equation of the circle in the graph. | 1. Put the following general form equation into the standard form equation of a circle:   Center:  Radius: |
| 1. Find a coterminal angle between 0° and 360° or between 0 and 2π radians. 2. -370° 3. 730° | 1. Switch to DMS or decimal form. 2. 206.37° 3. 143.82° |

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| 1. Without a calculator, find the values for sinθ, cosθ, tanθ, secθ, cscθ, and cotθ.   a) b) -150°   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | 1. The terminal side of an angle in standard position contains the point (4,-8). Find all of the trigonometric ratios for this angle.  |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |
| 1. Find the exact value of each expression using a coterminal angle: (1 pt ea.) (Show your work for credit!!) 2. cos -90° 3. sin 4. c. tan 5. tan 1020° | 1. Simplify. |
| 11. Simplify: tan2 x (csc2 x – 1) | 12. Simplify (Hint: remember how to factor perfect square binomials like (x2-9)! |

